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	Application No.	Applicant(s)
	10/733,412	RAO, GOVIND
Notice of Allowability	Examiner	Art Unit
	David A. Redding	1744
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	ears on the cover sheet with the co (OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>11/29/05</u> .		
2. The allowed claim(s) is/are 1.3-17 and 19-21.		
 3. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No	
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) hereto or 2) to Paper No./Mail Date	•	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.		
each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Date 	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement	ent of Reasons for Allowance
	9.	David A Redding Primary Examiner Art Unit: 1744

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Previously Presented) A bioprocessing system, comprising:
- (a) at least one bioreactor, wherein each bioreactor comprises a well housed in a multiple-well plate;
- (b) at least two optical chemical sensors associated with each bioreactor, wherein the optical chemical sensors are located within each bioreactor;
- (c) at least one excitation source corresponding to each optical chemical sensor; and
 - (d) at least one detector.
 - 2. (Canceled).
- 3. (Previously Presented) The bioprocessing system of claim 1, wherein the optical chemical sensors are sensor patches positioned at the bottom of the well.

- 4. (Original) The bioprocessing system of claim 1, wherein each bioreactor is a cuvette.
- 5. (Original) The bioprocessing system of claim 4, wherein the optical chemical sensors are sensor patches affixed to at least one wall of the cuvette.
- 6. (Original) The bioprocessing system of claim 1, wherein each bioreactor is a culture vial housed within a receptacle of a multi-receptacle bioreactor platform.
- 7. (Original) The bioprocessing system of claim 6, wherein the optical chemical sensors are sensor patches positioned at the bottom of the culture vial.
- 8. (Original) The bioprocessing system of claim 7, wherein the excitation source is a light emitting diode.
- 9. (Original) The bioprocessing system of claim 8, wherein the detector is an integrated spectrometer and diode array.

- 10. (Original) The bioprocessing system of claim 1, further comprising a bioreactor platform containing at least one receptacle to house each bioreactor.
- 11. (Original) The bioprocessing system of claim 10, further comprising a subplatform, wherein the bioreactor platform is positioned on top of the sub-platform.
- 12. (Original) The bioprocessing system of claim 11, further comprising an agitator, wherein the sub-platform is positioned on top of the agitator.
- 13. (Original) The bioprocessing system of claim 12, further comprising a positioning table, wherein the positioning table is positioned below the agitator such that the positioning table is capable of moving the bioreactor in an x-y or x-y-z plane to a predetermined position.
- 14. (Original) The bioprocessing system of claim 1 or 13, further comprising a data acquisition and control system connected to components of the bioprocessing system via cabling means.

- 15. (Previously Presented) A bioprocessing system, comprising:
 - at least one bioreactor, wherein each bioreactor comprises a cuvette;
- at least two optical chemical sensors associated with each bioreactor, wherein the optical chemical sensors are located within each bioreactor;
 - at least one excitation source corresponding to each optical chemical sensor; and at least one detector.
 - 16. (Previously Presented) A bioprocessing system, comprising:
- at least one bioreactor, wherein each bioreactor comprises a culture vial housed within a receptacle of a multi-receptacle bioreactor platform;
- at least two optical chemical sensors associated with each bioreactor, wherein the optical chemical sensors are located within each bioreactor;
- at least one excitation source corresponding to each optical chemical sensor; and at least one detector.
 - 17. (Canceled).
 - 18. (Previously Presented) A bioprocessing system, comprising: at least one bioreactor;

at least two optical chemical sensors associated with each bioreactor, wherein the optical chemical sensors are located within each bioreactor;

at least one excitation source corresponding to each optical chemical sensor; at least one detector; and

at least one dispenser positioned to selectively dispense a predetermined substance into the bioreactor.

- 19. (Previously Presented) The bioprocessing system of claim 18, wherein the dispenser comprises a liquid dispenser.
- 20. (Previously Presented) The bioprocessing system of claim 18, wherein the dispenser comprises a gas dispenser.
- 21. (Previously Presented) The bioprocessing system of claim 18, wherein the predetermined substance comprises an acid, a base or a nutrient.

<u>REMARKS</u>

Claims 1, 3-16 and 18-21 are pending in the present application. By this Amendment, claim 17 is canceled. Reconsideration in view of the above amendments and the following Remarks is respectfully requested.

Entry of the amended claims is proper under 37 C.F.R. §1.116 since the amendments: (1) place the application in condition for allowance (for the reasons discussed herein); (2) do not raise any new issues requiring further search and/or consideration (since the amendments amplify issues previously discussed throughout prosecution without incorporating additional subject matter); (3) satisfy a requirement of form asserted in the previous Office Action; and/or (4) place the application in better form for appeal (if necessary). Entry is thus requested.

Applicant appreciates the Office Action's indication that claims 1 and 3-21 are allowable.

The Office Action rejects claim 17 under 35 U.S.C. § 103(a) as anticipated by U.S. Patent No. 5,266,486 to Fraatz et al. (hereinafter "Fraatz"). Claim 17 has been canceled and thus this rejection is now moot. Accordingly, withdrawal of the rejection under 35 U.S.C. § 103(a) is respectfully requested.

<u>CONCLUSION</u>

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **René A. Vázquez, Esq.**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,

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Date: NOVEMBER 29, 2005

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